



BUILD *Right* NOW! -



When Steel is the  
Back-bone of Walls  
and Ceilings  
(above)

1. Milcor Stay-Rib Metal Lath in ceiling.
2. Milcor Cove Lath.
3. Milcor Expansion Corner Bead.
4. Kuehn's Specialmesh Metal Lath in walls.
5. Milcor Metal Window Stool.
6. Milcor Metal Base with Expanded Metal Wing.

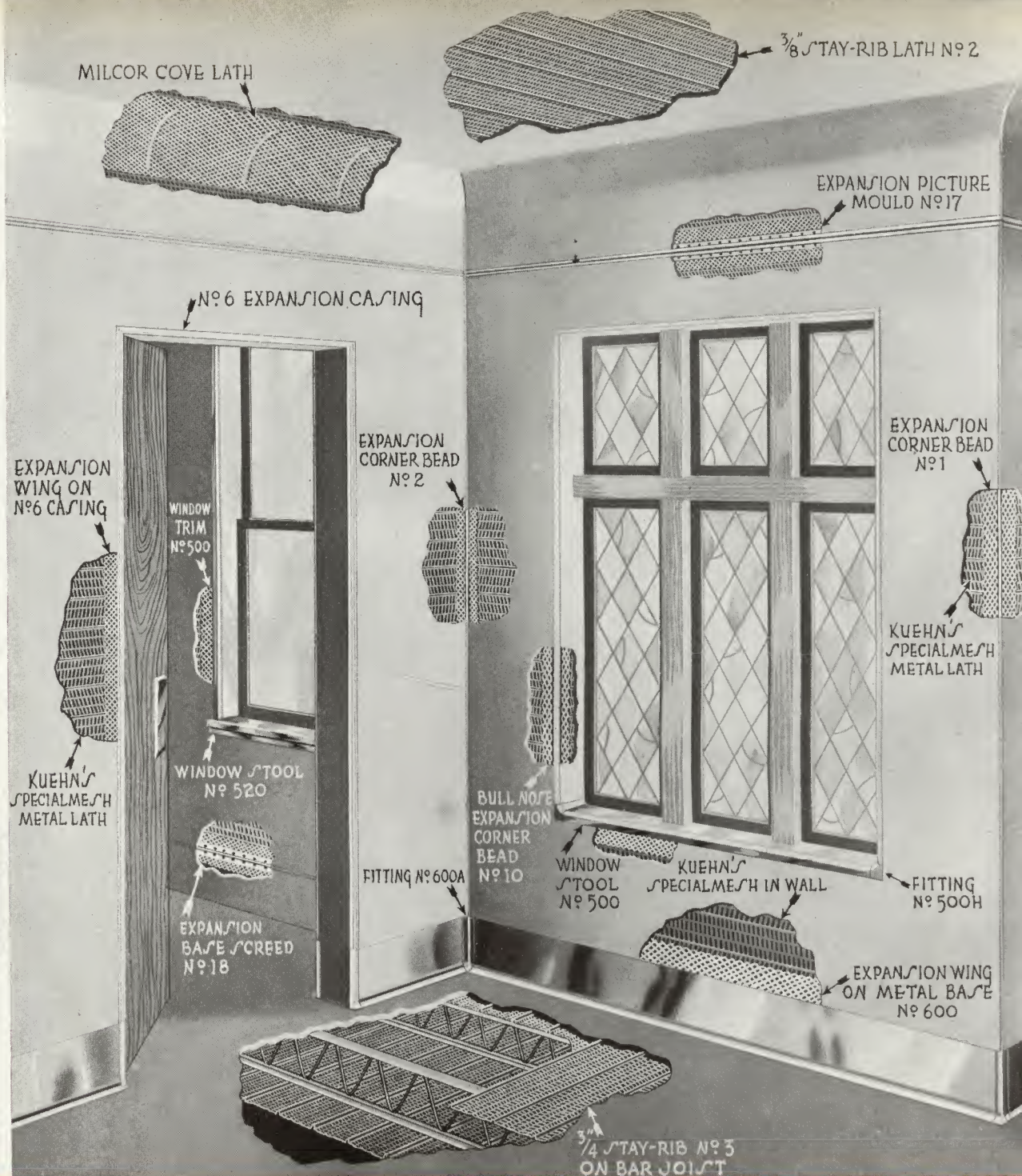


Your tile co  
a Lucke H  
bath, your  
being true  
for any ot



This plat

Approved  
Tested by A  
Sold by Al



The illustration shows a typical interior embodying all types of Milcor Metal Lath, Expansion Corner Bead, Expansion Casing, Cove Lath, Window Stools, Metal Base and accessory products. If interested in Metal Window Stools and Bases, write Milcor Steel Company, Milwaukee

## A Home Worth Building— is Worth Building **WELL!**

The knowledge that a home is built right is one of the greatest factors in the enjoyment of that home. There are those who will say that substitutes for plastering are worth while because they save a few days or more in erection time of the building. Certainly if a week or two could be saved during the time of construction without sacrificing ultimate quality, an owner may be justified in using materials which make this possible. On the other hand, if sound, permanent materials which assure economy of up-keep over the years are to be displaced by those of questionable value and permanence, the builder will make a mistake which he may never be able to correct. It is mighty poor business to make the large investment necessary for the building of a home and then have to regret the choice of materials.

WILLIAM  
WILM



# BUILD WITH STEEL

**as the backbone of your walls and ceilings—  
and you enjoy Safety, Savings and  
Satisfaction afterward**

Steel has made it possible to build our bridges, ocean liners, and skyscrapers. It has taken the place of less enduring materials in hundreds of manufactured articles.

And now Steel in the form of Metal Lath offers the home builder of today fire-safe, skyscraper-like construction at an *actual saving* in ultimate cost.

Milcor Fireproof Construction involves the use of Metal Lath and Accessory Steel Products as a plaster base. It makes walls so strong, corners, doorways and arches so firmly united that the building is held together as a single unit.

A good interior plastering job on Milcor Metal Lath offers advantages to the home owner which repays its cost many times. Plastered walls, by their very nature, are practically impervious to the passage of dust and dirt. They readily permit cleansing or redecorating of their smooth surfaces. There are no joints, seams or unevenness in the structural frame work of the house. Plaster on Milcor Metal Lath, when dry and hardened, produces a solid, *monolithic finish*. There are no rough, unfinished surfaces to catch and harbor dust, grime, and germs. There are no joints covered with batten strips or gaping cracks between units which cannot be kept clean. It is practically impossible to obtain by any other means the attractive appearance and permanence of a good plaster finish.

Your home is an investment—not only in contentment and comfort, but in money; not for one year, but over a long period of time. It must be considered as an investment—or it will be a disappointment. Ten years of up-keep expense on a home constructed of inferior, substitute materials will add hundreds of dollars to the original investment. Calculation must be made over a term of years. Permanent construction builds a much better house in the first place and yields an enormous saving in the long run.

Therefore, be sure you do the structural job *right*—be sure your walls and ceilings are made with good plaster over strong Metal Lath—which assures enduring, cost-free satisfaction.

## **BUILD RIGHT NOW**

**Go over the Materials in this booklet  
with your architect or builder**



In America's finest homes, walls and ceilings are now being made with fire-safe and permanently beautiful plaster on Metal Lath.

This attractive arch could be made only with plaster on a Metal Lath base.

The clean, inviting surface of the walls of this charming dining room will remain unmarred throughout the years because of good plastering on Metal Lath.



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An unusual dining room ceiling made possible by Metal Lath.



Beautiful effects can be obtained with plaster or cement over Metal Lath as shown by this fountain.



The interesting arch in this picture was made with Milcor Expansion Corner Bead and Netmesh Metal Lath. The bead makes a finished, enduring opening.

## MILCOR Metal Lath Gives Unlimited Freedom in Structural Forms and Shapes

The deft trowel of today's plasterer utilizes the freedom of forms and shapes made possible by metal lath to develop more beautiful interior architecture. Many homes are now finished with interesting plaster textures which indicate a new awakening of appreciation for plastering as a medium of expression in architecture. No longer is plaster regarded merely as a base for decoration. It has become the decoration itself. Texture and color tone have been skillfully combined in the most charming manner. The plasterer of today is really a plastic decorator.

There is no end to the types and kinds of interior decoration which are possible with plaster on metal lath. Wall paper of any kind will maintain its beauty only over a proper plaster surface. Plaster also takes any painting desired and makes redecoration possible at low cost.

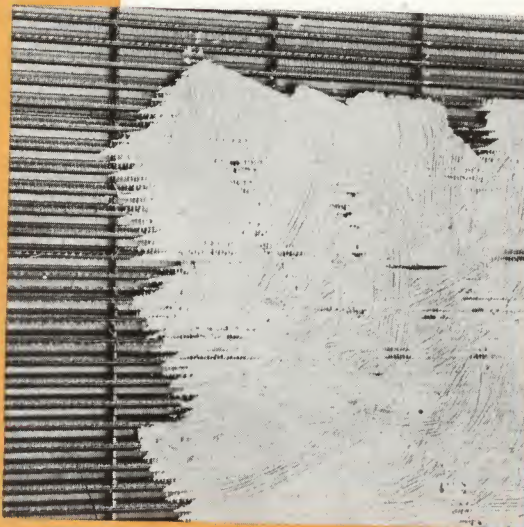


Metal lath makes curved ceilings easy to build.



### Metal Lath Assures a Good Plaster Job

Plasterers cannot skimp when Metal Lath is used as the plaster base because the plaster must be forced through the meshes of the lath. Three coats of plaster are always used with metal lath. A good, heavy plastering job, reinforced with steel, makes the finest wall.



### The First Coat Covers the Lath

The first or "Scratch" coat of plaster is forced thru the Metal Lath so that it is "keyed" on both sides of the steel reinforcing. For your own sake, consider the value of a wall built in this manner as compared with a skimpy plastering job on a flimsy substitute plaster base.



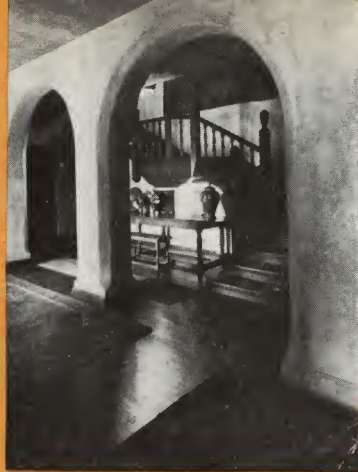
### Completely Imbeds the Metal

This picture shows the back surface of plaster on Metal Lath. Notice how the plaster has been forced through the lath to such an extent that when dry and hardened it becomes permanently "clamped" to the steel. Kuehn's Specialmesh is so designed that all of the plaster is used in the wall. There is no waste.





This living room will keep its dignified beauty because its walls are made with plaster on rigid, crack-free Kuehn's Specialmesh Metal Lath.



Any architectural inspiration may achieve its perfect material expression with Metal Lath.



Netmesh Metal Lath.

## Use These MILCOR Metal Laths for Interior Walls and Ceilings

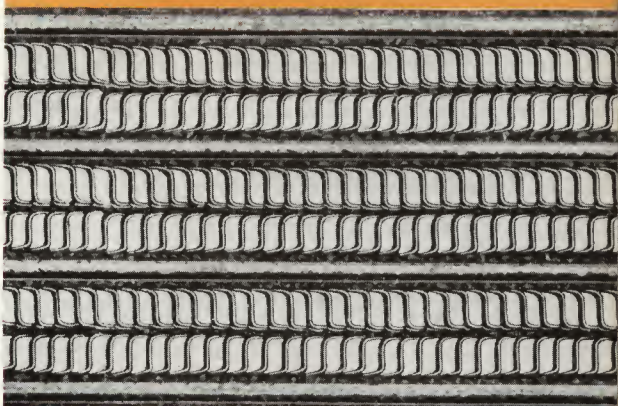
*Netmesh Metal Lath* is  $1\frac{1}{32}$  inch by  $\frac{9}{16}$  inch expanded Diamond Mesh produced by special machines and equipment designed and built by Milcor engineers. Due to the close rigid mesh only a comparatively small amount of plaster is required to produce a perfect key with speed and ease as well as economy in plastering material.

*Kuehn's Specialmesh* is a new rib lath specially adapted for interior walls and ceilings. The meshes are so formed that in plastering, the slightest pressure of the trowel completely imbeds the lath, and due to the small mesh, waste of plaster is eliminated. The longitudinal stiffening ribs are  $\frac{3}{8}$  inch wide, spaced  $1\frac{5}{8}$  inches on center and are connected by strands at  $\frac{1}{4}$  inch intervals. These strands, in turn, are strongly reinforced at their junctures by stiffening members (two between each pair of ribs).

*No. 1 Stay-Rib Lath* is designed for maximum rigidity and unusual economy of material—an adequate key, however, is assured. The longitudinal stiffening ribs are  $\frac{1}{2}$  inch wide, spaced  $1\frac{3}{4}$  inches on center inter-connected by strands at  $\frac{1}{4}$  inch intervals. These, in turn, are strongly reinforced at their centers by a stiffening member. For both ceiling and wall plaster reinforcement, Milcor Stay-Rib No. 1 is unusually satisfactory.



Kuehn's Specialmesh Metal Lath.



No. 1 Stay-Rib Metal Lath.



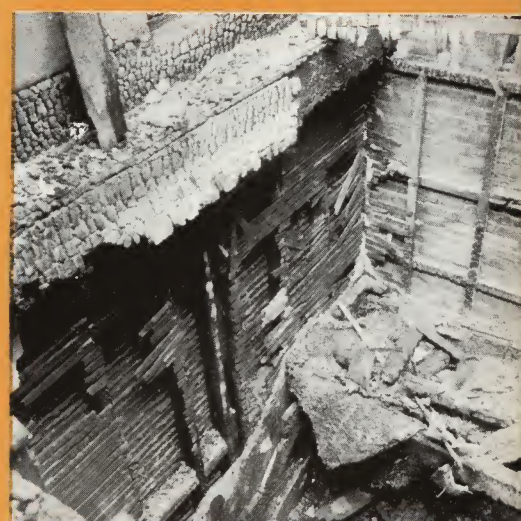
### Holds Plaster in Grip of Steel

When plaster is applied to Metal Lath it is held by mechanical keys acting as strong finger grips which can never let go. That is why Metal Lath prevents cracks in plaster—why the whole wall is held together in one monolithic slab which cannot be subject to warping and shrinking.



### 3 Lives Saved With Metal Lath

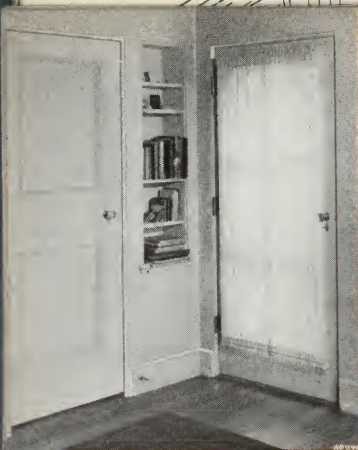
Although the fire in this room was so intense that window panes were shattered, three persons slept undisturbed on the other side of a Metal Lath and plaster partition. The fire-safe qualities of Metal Lath are priceless when human life is at stake.



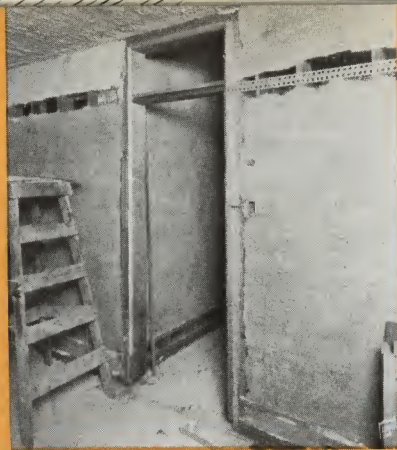
### 7 Lives Lost With Ordinary Lath

The picture above is in ghastly contrast to the one at the left. Seven persons died in this fire of small origin, which soon became a raging inferno because of the combustible material used in construction.





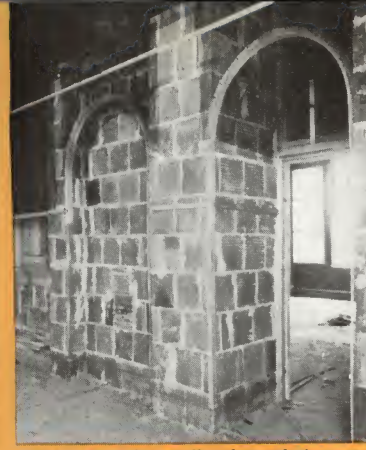
Milcor casing gives a neat, trim effect, in keeping with the finest design.



Expansion wings reinforce plaster around door or window casings.

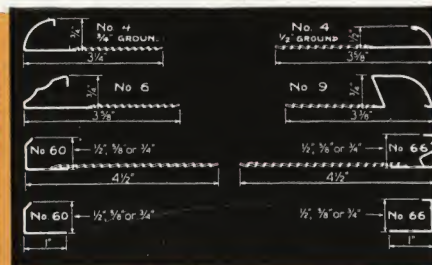
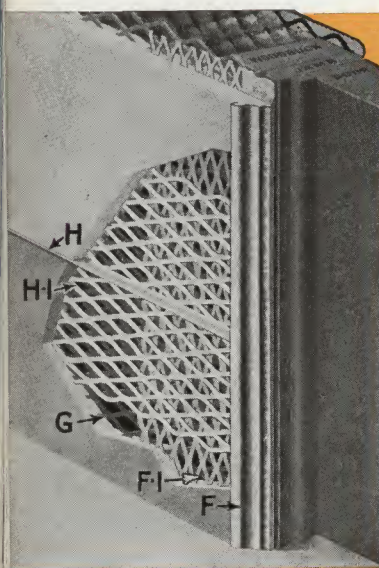


Wall crypt and arches made with Milcor Expansion Corner Bead.

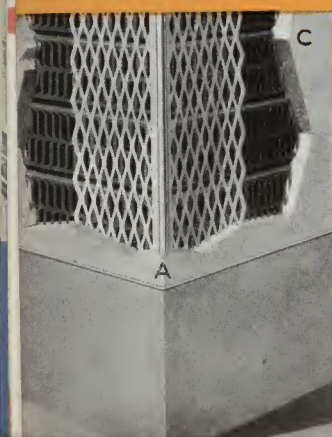
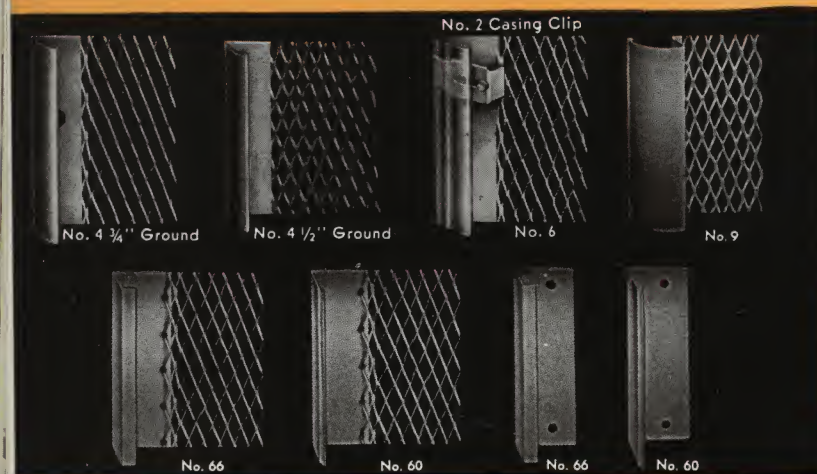


This bead is easily formed to many shapes; retains reinforcing value.

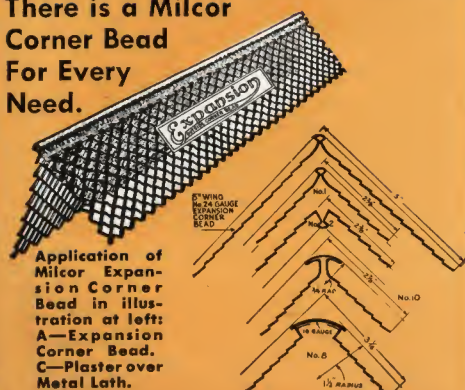
## PROTECT AND BEAUTIFY WITH MILCOR CASING AND CORNER BEAD



Illustrations at left: H—Nose of Base Screed, H-1—Expanded Metal on Base Screed, G—Metal Lath in Wall, F-1—Expanded Metal on Casing, F—Surface of Door Casing. Sketch shows application of casing with special clip.



There is a Milcor Corner Bead For Every Need.



## EXPANSION CASING FOR DOORS AND WINDOWS

You will be delighted with the smart, good-looking effect of Milcor Expansion Casings on your doors and windows. Their simple beauty harmonizes with all types of interior decoration.

The neat, trim appearance of Milcor Casing provides a practical answer to the desire to get away from the old-fashioned, heavy wood trim around openings. The Expanded Metal Wing of this casing grips the plaster permanently to the metal and there can be no cleavage cracks or pulling away from the wall. The painted metal surface is easy to clean and perfectly sanitary. Milcor Metal Casing cannot warp or shrink. It is integral with the wall itself and provides an air-tight junction between the casing and wall which makes impossible the entrance of cold air at this point.

In addition to its artistic appearance, and practical, fire-safe features, Milcor Metal Casing offers the builder a real saving in construction. There is a reduction in labor due to simplicity in handling and considerable saving in installation time. Finishing cost is much less than with other materials.

## EXPANSION CORNER BEADS PROTECT CORNERS AND ARCHES

These corner beads have an Expanded Metal Wing which reinforces the plaster right up to the nose of the bead. There are no solid surfaces on Expansion Corner Beads where the plaster may or may not stick. The result is an effective reinforcement where it is most needed, and substantial assurance that the corners will withstand much more than average abuse.

Years ago plaster corners in houses were protected with an ugly, heavy, wooden moulding. Modern homes and buildings now use metal corner beads only. These corner beads are ideal for arches and many other types of openings. They can be curved to any desired radius without losing their reinforcing value.

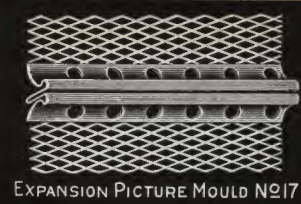


## EXPANSION PICTURE MOULD

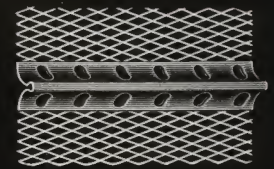
It pays to remember the details when planning a home and the foresight of specifying Milcor Expansion Picture Mould will be rewarded many times in years to come. This picture mould has Expanded Metal Wings integral with the mould itself. These wings reinforce the plaster right up to the surface of the mould which is flush with the plaster line. This mould is permanent, sturdy and sanitary. It forms a rigid, dependable support for the heaviest decorations.

## EXPANSION BASE SCREED

This screed is ideal when a flush cement base is used at the bottom of a plaster wall. It is a firm, rigid dividing strip having Expanded Metal Wings to reinforce both the plaster and cement.



EXPANSION PICTURE MOULD No. 17



EXPANSION BASE SCREED No. 18

## MILCOR COVE LATH

If you like cove ceilings, there is no better way to achieve them than by using Milcor Cove Lath as a steel back-bone to join walls and ceiling. Perfect coves may be made without the fussy and costly work of cutting wood brackets and forming the cove on the job. There is a 1 1/2-inch overlap on the lath attached to wall and ceiling and this double reinforcing assures a smooth, crackless joint.

Milcor Cove Lath is made from Diamond Mesh Lath which is electrically welded to curved channel sections spaced 16 inches on center. Three sizes are made with radii of 6 3/4, 8 3/4, and 10 3/4 inches.

Finished plaster surfaces have radii of 6, 8 and 10 inches.



## MILCOR STEEL STUDS

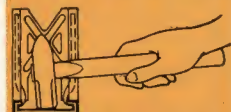
The cost of Milcor Steel Studs for non-bearing partitions compares favorably with ordinary wood studs and yet they offer the advantages of a sturdy steel member which is not affected by moisture and cannot swell, warp or split. These studs are held firmly in place and assure a wall of unusual strength and permanence.

Partitions made with Milcor Steel Studs are absolutely fire-safe. They resist stresses and pulls and offer high insulating value, sound resistance, and light weight.

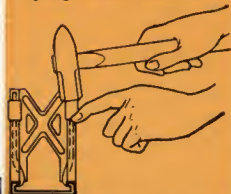
Expansion Corner Beads, Picture Mould, Chair Rails, Casing, Cove Lath, and other finishing materials are applied to these studs in the usual manner. Heating and plumbing equipment take less time to install when these steel studs are used. The new embossed, "X" shaped Milcor Steel Studs embody by far, the most advanced engineering design and the greatest number of advantages to the user of any Steel-stud for this purpose on the market.



Shoe is Slipped into Channel Sections of Floor Runner and Stud as Shown



Shoe is Wedged into Floor Runner by Tapping with Hammer

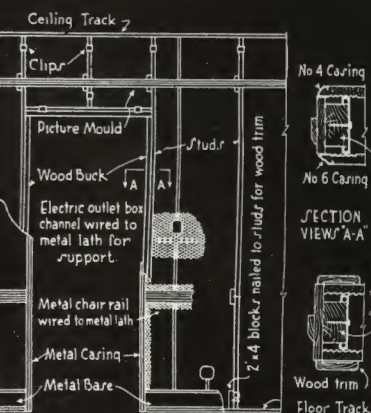
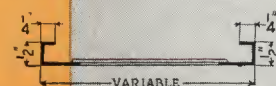


Clips Slip Around Channel Sections and Shoe Arms—Wedged Tightly with One Blow of Hammer.

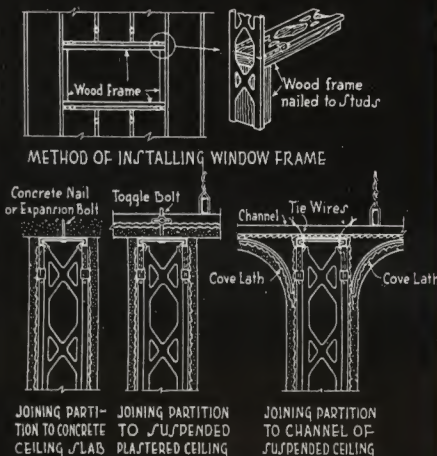
**1**  
**CHANNEL SIDES**  
Extra flange provides positive lock for shoes, connections, wood blocks, other attachments.

**2**  
**LARGE, UNIFORM OPENINGS**  
provide a predetermined exact location of all conduits or pipe lines.

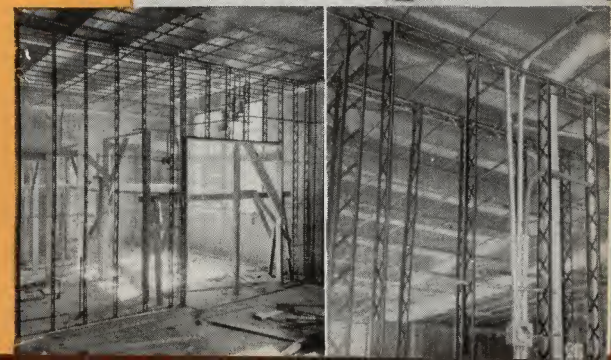
**3**  
**REINFORCED X-SHAPED MEMBERS**  
—reinforced by embossed corrugation extending into channel sides beyond opening.



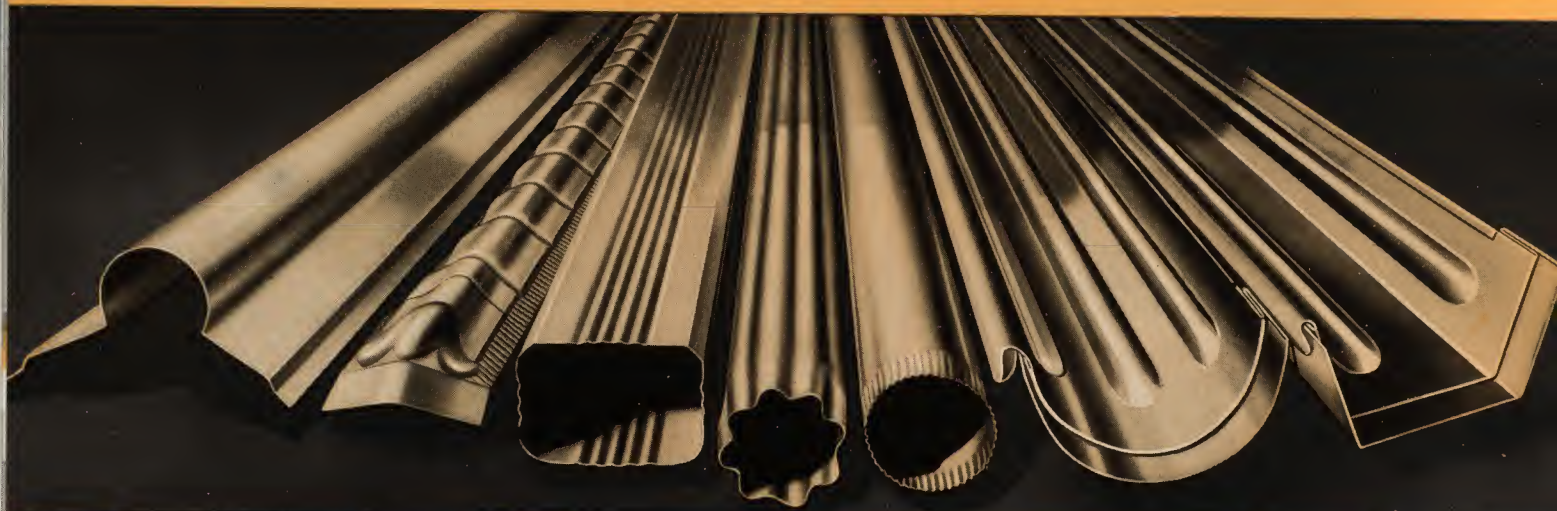
ELEVATION OF PARTITION SHOWING WOOD DOOR BUCK AND METAL TRIM



JOINING PARTITION TO CONCRETE  
JOINING PARTITION TO SUSPENDED PLASTERED CEILING  
JOINING PARTITION TO CHANNEL OF SUSPENDED CEILING







## THE BEST RAIN CARRYING EQUIPMENT COSTS NO MORE—WHEN YOU SPECIFY MILCOR

American home owners and builders have installed more than twice as much rain carrying equipment manufactured by Milcor as that of any other make. The reason for this overwhelming preference is that constant improvements in design and manufacture have put Milcor products far ahead of the field. Insist on them and you can be sure that you will have the best that money can buy.

It is worth while to consider the use of copper rain carrying equipment because it possesses unrivaled beauty and an inherent ability to withstand the ravages of time and weather. It will never require painting, repairing, or renewal.



### These Modern Steel Accessories Cannot Burn, Shrink, Rot or Warp

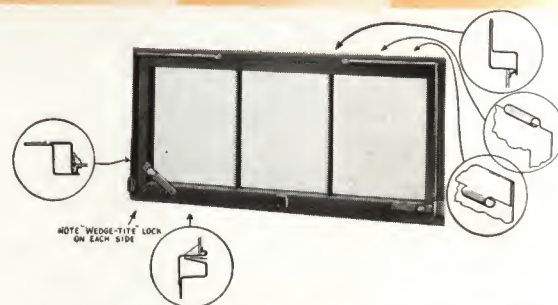
#### MILCOR METAL ACCESS DOORS

It is necessary to have access doors in certain parts of the home to permit key points in plumbing, heating, and electrical systems to be reached conveniently and easily. The Milcor Access Door is inconspicuous because its surface is flush with the plaster. Wall paper or paint may be put over the door to conceal it entirely. These doors come both with and without the expanded metal reinforcing wing. The door itself is removable or hinged to the housing as desired. Ready access to valves, fittings, etc. is provided at the turn of a screw. Available in 16 sizes.



#### MILCOR PACKAGE RECEIVER

This steel package receiver is absolutely sanitary and warp-proof. It is adjustable to wall thickness from 5 to 14 inches. The wall opening is 9 x 11 inches. Catches are made of wrought steel and are unbreakable.



#### MILCOR STEEL BASEMENT WINDOWS

This steel window is absolutely weather-proof in design. The frame is stamped from a single steel sheet and formed without a joint. Special protection against driving rain is provided by the sill section sloping sharply downward. Steel windows in the basement add value to the home because they cannot swell, warp or get out of true. Steel storm sash and screens are available.

#### MILCOR FLUE OR CLEAN OUT DOOR

This door is stamped from highest grade copper alloy steel sheets. Hinges are integral with the frame and door. No riveting or welding is employed. Catches are of wrought steel.



# MILCOR STEEL COMPANY

MILWAUKEE, WISCONSIN

Chicago, Ill.

Kansas City, Mo.

CANTON, OHIO

La Crosse, Wis.

New York City

Baltimore, Md.

Rochester, N. Y.

Atlanta, Ga.